



Article

A Chronic Disease in Adolescence and Selection to an Educational Path—A Longitudinal Study

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Abstract: Chronic disease may affect adolescents' educational success. We study whether adolescents with a somatic chronic condition have lower school performance, lower odds for academic education, and a delayed start of upper-secondary studies. Seventh graders and ninth graders in the Helsinki Metropolitan Region, Finland, were invited to participate in a school survey in 2011 and 2014, respectively. The respondents (2011, $N = 8960$; 2014, $N = 7394$) were followed using a national application registry until 2017. The chronic conditions were asthma, diabetes, and epilepsy. Outcomes were grade point average (GPA), study place in an academic school, and delayed start of secondary education. Adolescents with a chronic disease needing medication had lower GPAs in both grades. Chronic disease with medication in the seventh grade predicted higher odds for the non-academic track ($OR = 1.3$) and the delayed start ($OR = 1.4$). In the ninth grade, chronic disease predicted non-academic studies univariately ($OR = 1.2$) and was not associated with the delayed start. The somatic chronic condition with medication, particularly epilepsy, slightly lowers students' school performance, which is a mediator between the chronic condition and selection into educational paths. Compared to gender and parents' education, and particularly to GPA, the role of chronic conditions on educational outcomes is small.

Keywords: school performance; academic path; lower secondary school; asthma; diabetes; epilepsy



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1. Introduction

Low education is a strong predictor of poor health and early death in adult age [1,2]. In adolescence, poor academic achievement [3] and dropping out of education [4] increase the risks for poor health outcomes. Critical decisions on education taken in adolescence shape the pathways from childhood socioeconomic positions towards one's own educational and socioeconomic career. Educational resources obtained during education may impact health through various mechanisms. Among these are knowledge and skills which may affect a person's cognitive functioning and readiness to receive and apply health-related information, as well as an ability to communicate and use health services [5]. Health literacy gained during education has been observed as a potential mechanism through which individuals' educational resources safeguard their health [6].

In many European countries, students are sorted relatively early (before age 13) into separate tracks, whereas in other countries (e.g., Finland, the other Nordic countries) all students follow mainly the same curriculum through their primary and lower-secondary school [7,8]. While choices for educational paths are available, they may be limited by economic, geographical, or cultural conditions, parents' education, or individual reasons like poor health. International PISA studies have shown how the socio-economic position of the family shapes a child's academic performance [9]. Other studies have

Chronic Disorders In Adolescence

Tao Wei



Chronic Disorders In Adolescence:

Behavioral Approaches to Chronic Disease in Adolescence William O'Donohue, 2009-06-12 Adolescence is typically fraught with problems even under optimal conditions And when chronic illness is added to the picture medical and related social issues can complicate and even disrupt the course of development The first text geared toward the integrated care setting *Behavioral Approaches to Chronic Disease in Adolescence* offers clinicians an evidence based guide to helping their young clients manage their chronic conditions and treating the psychosocial effects from school problems and stigma to noncompliance and depression that frequently follow diagnosis Expert contributors present up to date information on epidemiology symptoms comorbid psychosocial problems and treatment options for a variety of common illnesses arranged to foster effective interventions for adolescents and efficient collaboration with other care providers in the team Coverage is comprehensive authoritative and accessible ensuring best practice while respecting each client s individuality Empirically based treatment guidelines for illnesses commonly found in youth including Type 1 and 2 diabetes asthma cancer obesity and chronic pain Overview of the physiology of adolescence particularly as it may be affected by medical conditions and of adolescent brain development Latest findings on the role of families in teens adjustment to illness and treatment Cultural considerations affecting ethnically diverse clients and their families Detailed discussions of ethical issues relevant to treating chronically ill young people and of controversies involving pharmacotherapy with this population Chapters contain useful handouts for clinicians and clients Taking Care of the Practitioner chapter with helpful strategies for avoiding burnout Its emphasis on specific practical information makes *Behavioral Approaches to Chronic Disease in Adolescence* a go to reference for health psychologists child and adolescent mental health practitioners pediatricians and family practitioners and clinical social workers

Chronic Disorders in Children and Adolescents Mark L. Goldstein, Stephen J. Morewitz, 2011-08-25 There has been a significant increase in the prevalence of certain chronic disorders among children and adolescents For example health experts warn of an epidemic of diabetes mellitus due to an increase in the sedentary life style and poor nutrition of children There are many questions still to be addressed in the study of chronic disorders among children and adolescents What are the risk factors associated with chronic diseases in these populations What are the major complications that contribute to disability and increased health care utilization and costs What impact do chronic diseases have on the psychosocial development What are the most effective diagnostic treatment and rehabilitation strategies How can patient education and self management activities be improved to help children and adolescents improve compliance with treatment regimens How can parents and other family members become more involved in assessment and management In what ways can peers schools religious institutions and other organizations help children and adolescent cope with their chronic disease This book addresses these questions by focusing on how eight chronic disorders affect health care utilization costs coping and health outcomes in children and adolescents Research studies are used to illustrate wide range of topics from the

epidemiology of chronic diseases in children and adolescents health care utilization and costs to treatment outcomes disability and family processes Case studies from a clinical psychologist's private practice are used to clarify major psychosocial issues underlying chronic diseases in these populations Chapter One analyzes the epidemiology of eight chronic conditions in children and adolescents Data on the prevalence of diseases and associated risk factors are stressed in this chapter Health care planners can use these analyses to improve primary secondary and tertiary prevention through more effective uses of health care resources Chapter Two examines the latest information on health care utilization and costs for children and adolescents that can point to a more efficient means of reducing the rising health care costs associated with the treatment of chronic diseases In the remaining chapters the eight chronic diseases are evaluated in terms of five major issues First the latest trends in complications associated with each chronic condition are explored Second the impact of each disease on disability and psychosocial development of children and adolescents are analyzed Third recent research findings on diagnosis treatment and rehabilitation strategies are discussed Fourth new trends in patient education and self management are presented Fifth each chapter will assess the role of family peers schools and other organizations in helping children and adolescents cope with their chronic disorders Dr Mark L Goldstein a clinical psychologist reviews the literature and uses composite case studies from his practice to illustrate the impact of these trends on how children and adolescents manage chronic disease The information in this book will be relevant to a wide range of professionals and students in the fields of pediatrics medicine nursing public health mental health social work education health administration health policy and social sciences

Chronic Illness During Childhood and Adolescence William T. Garrison, Susan

McQuiston, 1989-07 This book offers an overview of the critical issues in the assessment and treatment of children with chronic illnesses Case vignettes a literature review and the authors clinical perspectives combine to inform about both the medical realities of chronic disease and the unique effects on psychological and developmental processes There are sections on diabetes mellitus asthma cystic fibrosis sickle cell anemia childhood cancers and paediatric AIDS Developmental issues are considered as are key issues of a case study approach

Chronic Illness in Children and Adolescents Ronald T Brown, Brian P Daly, Annette U Rickel, 2007-01-01 Management of chronic illness in children and adolescents often is a multifaceted challenge that requires the attention and expertise of individuals from a variety of disciplines that include psychology psychiatry social work and medicine The aim of this book is to provide readers with a practical overview of the definitions characteristics theories and models diagnostic and treatment indications and relevant aspects and methods of evidence based psychosocial treatments for chronic illness in children and adolescents Although treatments and research for chronic conditions are reviewed in general particular attention is directed at asthma cancer cystic fibrosis diabetes mellitus and sickle cell disease due to the high incidence of these chronic diseases among children and adolescents Case vignettes and suggestions for further reading are provided for the interested reader

Chronic Disorders in Adolescence Mark

Scott Smith,1983 Este libro concentra el arte de la medicina practicada por los m dicos del cuidado primario No est hecho para ser un libro de texto exhaustivo sino para proveer de conceptos y recomendar aproximaciones para tratar las enfermedades m s comunes vistas en la edad de la adolescencia *Behavioral and Emotional Disorders in Adolescents*

David A. Wolfe,Eric J. Mash,2006-01-01 Systematic authoritative and timely this is an outstanding reference and text for anyone working with or studying adolescents More than 50 leading experts comprehensively review current knowledge on adolescent externalizing disorders internalizing disorders developmental disorders personality and health related disorders gender identity and sexual disorders and maltreatment and trauma Chapters identify the core features of each disorder explore its etiology course and outcome address diagnostic issues specific to adolescents and describe effective assessment and treatment approaches The book also provides an integrative conceptual framework for understanding both healthy and maladaptive adolescent development **Adolescence and Chronic Illness** Hatim A. Omar,2010 The prevalence of chronic illness or disability in adolescence has increased in recent years due to medical advances and adolescents are now more than ever able to lead a productive life even in spite of serious illness In the past children with many diseases would not reach adolescence but over the last decade or more the survival rate for children with cystic fibrosis for spina bifida and congenital heart disease has increased The old morbidity infectious disease poor housing poverty lack of immunisation has been exchanged with the new morbidity of adolescence where a longer life expectancy is followed by an increase in life long disability The concern in chronic illness include medical psychological physiological biological reproductive cognitive and social aspects Practitioners of the healing arts must become familiar with the most common disabilities likely to afflict children and adolescents so that appropriate evaluation treatment and management may occur This book will cover a broad area of chronic illness in adolescence written by leading experts in this field **Adolescent Health Care** Lawrence S. Neinstein,2008 This practical easy to use guide is a staple in health care facilities that treat adolescents is widely used for board preparation and is recommended by the American College of Physicians for their internal medicine library The substance abuse section has been completely reorganized and new chapters cover psychosomatic illness as well as complementary medicine **Chronic Illness and Disabilities in Childhood and Adolescence** Robert W. Blum,1984

Quality of Life in Child and Adolescent Illness Hans Koot,Jan Wallander,2014-01-14 How can we measure the quality of life in children and adolescents with chronic disease Major progress in the diagnosis and treatment of severe and chronic disease has led to an increased number of children and their families having to adapt and cope with the impact of disease survival and the cost of treatment Health professionals have responded to this by developing a diversity of instruments for measuring quality of life for use in paediatrics psychology and public health This book introduces the reader to the emerging field of quality of life assessment and provides a comprehensive overview of the conceptual and methodological issues concerning quality of life in child and adolescent illness Particular emphasis is provided on current efforts to measure the

impact of specific chronic conditions on different domains of child functioning Future directions are outlined for the development of appropriate instruments for measuring quality of life in children and adolescents Quality of Life in Child and Adolescent Illness is intended for psychologists paediatricians paediatric nurses child psychiatrists public health professionals researchers and other interested readers from the undergraduate to the working professional *Chronic Disease and Disability* Donald E. Greydanus, Vincent J. Palusci, Joav Merrick, 2017 In the 19th century a greater understanding of children's rights was acknowledged and in the 20th century child abuse was discovered in 1962 after many years of turning a blind eye The number of reported cases of child abuse worldwide has since exploded into a public health epidemic with a much higher incidence than better funded diseases such as juvenile cancer The evaluation of child abuse and neglect is complex with many professionals and agencies involved to try and decrease these incidences This can be one of the reasons why the field has not been able to attract appropriate resources for prevention treatment education and research Child abuse must be looked upon as a major public health problem and professionals must make the 21st century a century for the child In this book the authors have given a short review of the field **Teens Face to Face with Chronic Illness** Suzanne LeVert, 1993 Discusses such chronic diseases as hemophilia asthma diabetes and epilepsy and examines how they can affect such daily activities as school sports and relating to friends and family **Chronic Disorders in Children and Adolescents**, 2011-08-26 **Adolescents' Health** Inge Seiffge-Krenke, 2015 **Handbook of Adolescent Health Psychology** William T. O'Donohue, Lorraine T. Benuto, Lauren Woodward Tolle, 2014-07-08 Adolescence is a pivotal period of development with respect to health and illness It is during adolescence that many positive health behaviors are consolidated and important health risk behaviors are first evident thus adolescence is a logical time period for primary prevention In addition the predominant causes of morbidity and mortality in adolescence are quite different from those of adults indicating that early identification and treatment of adolescent health problems must be directed to a unique set of targets in this age group Moreover because of the particular developmental issues that characterize adolescence intervention efforts designed for adults are often inappropriate or ineffective in an adolescent population Even when chronic illnesses are congenital or begin in childhood the manner in which the transition from childhood to adolescence to young adulthood is negotiated has important implications for disease outcomes throughout the remainder of the person's life span Organized in five major sections General Issues Developmental Issues Treatment and Training Mental Health and Physical Health and 44 chapters Handbook of Adolescent Health Psychology addresses the common and not so common health issues that tend to affect adolescents Coverage includes Context and perspectives in adolescent health psychology Health literacy health maintenance and disease prevention in adolescence Physical disorders such as asthma obesity physical injury and chronic pain Psychological disorders such as substance abuse attention deficit hyperactivity disorder depression and eating disorders Congenital chronic diseases such as type 1 diabetes and spina bifida Handbook of Adolescent Health Psychology is the

definitive reference for pediatricians family physicians health psychologists clinical social workers rehabilitation specialists and all practitioners and researchers working with adolescents *Chronic Mental Illness in Children and Adolescents* John G. Looney, 1988 The purpose of this book is to address the problem of children and adolescents who have mental disorders that are chronic While some emotional disorders in youngsters are reactive disorders which with professional help will be corrected by the natural process of psychological growth there are youth who have illnesses that go on interminably For those children the existing mental health system has been ineffective In order to begin to address the needs of such youngsters the first step is to bring together people knowledgeable about the problem This volume integrates material presented at the National Conference on Chronic Mental Illness in Children and Adolescents as well as knowledge that has developed since the time of that conference This reference looks at many of the problems encountered in treating chronically mentally ill youngsters such as determining the population of this group improving the method and quality of care delivery and analysis of epidemiological data and public policy impediments The importance of skillful clinical work with families and methods of providing family assessment and care are discussed Treatment evaluation to determine which modalities of care are most effective for which types of children is discussed as part of the treatment program Much of this book focuses upon strategy policy and politics *Health Care Transition* Albert C. Hergenroeder, Constance M. Wiemann, 2018-05-03 This comprehensive book thoroughly addresses all aspects of health care transition of adolescents and young adults with chronic illness or disability and includes the framework tools and case based examples needed to develop and evaluate a Health Care Transition HCT planning program that can be implemented regardless of a patient's disease or disability Health Care Transition Building a Program for Adolescents and Young Adults with Chronic Illness and Disability is a uniquely inclusive resource incorporating youth young adult caregiver and pediatric and adult provider voices and perspectives Part I of the book opens by defining Health Care Transition describing the urgent need for comprehensive transition planning barriers to HCT and then offering a framework for developing and evaluating health care transition programs Part II focuses on the anatomic and neuro chemical changes that occur in the brain during adolescence and young adulthood and how they affect function and behavior Part III covers the perspectives of important participants in the HCT transition process youth and young adults caregivers and both pediatric and adult providers Each chapter in Part IV addresses a unique aspect of developing HCT programs Part V explores various examples of successful transition from the perspective of five key participants in the transition process patients caregivers pediatric providers adult providers and third party payers Related financial matters are covered in part VI while Part VII explores special issues such as HCT and the medical home international perspectives and potential legal issues Models of HCT programs are presented in Part VIII utilizing an example case study Representing perspectives from over 75 authors and more than 100 medical centers in North America and Europe Health Care Transition Building a Program for Adolescents and Young Adults with Chronic Illness and Disability is an ideal

resource for any clinician policy maker caregiver or hospitalist working with youth in transition Encyclopedia of Primary Prevention and Health Promotion Thomas P. Gullotta, Martin Bloom, 2003-01-31 Foundational topics such as history ethics and principles of primary prevention as well as specific issues such as consultation political issues and financing The second section addresses such topics as abuse depression eating disorders HIV AIDS injuries and religion and spirituality often dividing such topics into separate entries addressing childhood adolescence and adulthood **Helping Children and Adolescents with Chronic and Serious Medical Conditions** Nancy Boyd Webb, 2009-09-15 Praise for Helping Children and Adolescents with Chronic and Serious Medical Conditions A Strengths Based Approach Helping Children and Adolescents with Chronic and Serious Medical Conditions provides a wellspring of knowledge from the theoretical to the clinical The many vignettes and transcriptions immeasurably enrich the reader's understanding of the interventions and their broader applicability Barbara M. Sourkes PhD John A. Kriewall and Elizabeth A. Haehl Director of Pediatric Palliative Care Lucile Packard Children's Hospital at Stanford An important and practical guide to providing compassionate care and support to medically compromised children and their families Helping Children and Adolescents with Chronic and Serious Medical Conditions A Strengths Based Approach presents practical guidance on integrating the latest research into evidence based practice to ensure the best client care Edited by a top scholar in the field this essential resource contains contributions from renowned specialists in various helping fields Utilizing an inter professional perspective helping professionals will draw from the experiences and expertise of a wide range of medical professionals providing a window into their roles responsibilities and challenges offering the most effective approaches for working with this special population of children and their families Equipping practitioners with the knowledge and skills needed to encourage children's resilience and help them build their emotional strengths this book uses a caring yet authoritative tone and discusses The emotional impact of illness on the individual and the family Child life practice in hospitals School based interventions for children and adolescents with medical conditions How to meet the spiritual as well as emotional needs of children with chronic and life threatening illness With thoughtful coverage of positive helping approaches that encourage family and individual strengths Helping Children and Adolescents with Chronic and Serious Medical Conditions A Strengths Based Approach is an invaluable resource for social workers teachers school counselors and other mental health and medical professionals who work with medically challenged children and adolescents in every setting Child and Adolescent Health Yearbook 2014 Joav Merrick, 2015 It is now apparent that chronic diseases start in early childhood and professionals should therefore emphasize the importance of a lifestyle of regular physical activity from childhood and during adolescence which continues into and throughout adulthood for the health and well being of both individuals and populations Programs that correspond with an active life style should be assembled in accordance with clinical and research findings be community based and easily accessed by all and throughout the year with specific consideration for individual needs such as function disability sex and age of the participants We have

discussed this issue in this book but you will also find chapters focused on school and adolescent health juvenile firesetting chronic illness internet teenage pregnancy and substance abuse

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